













Vetronics Software Architecture

Overview of a GDLS Notional CORBA-Based Vehicle Architecture

Development of Device Control Logic Using UML

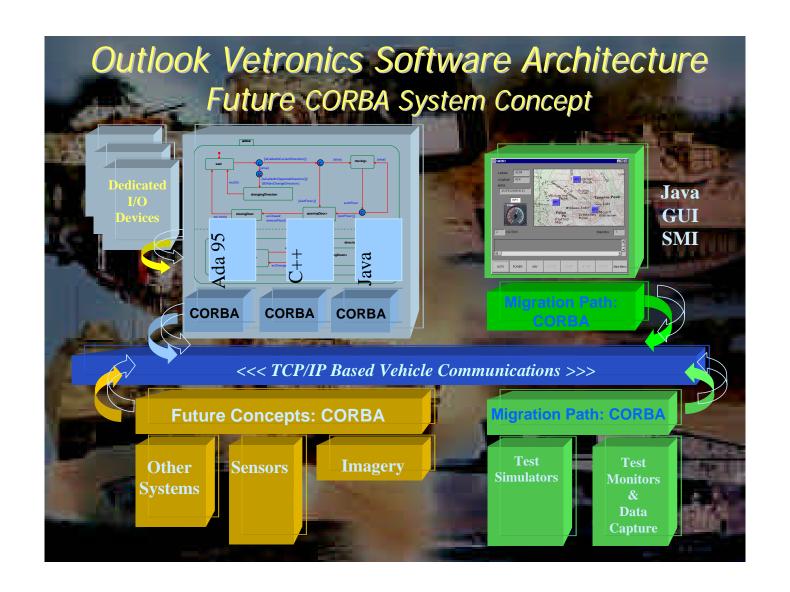
- Leverage Modeling Tools, e.g. I-Logix Rhapsody
- Integration of C++ Auto-code Using CORBA

Java Display Client

- Dynamically Generated Screens Using XML-Definitions
- CORBA-Enabled JavaBeans

CORBA-Based Interprocess Communication

- Multiple ORBs (Prototype Used JavaIDL & Visibroker)
 - ORBexpress Planned for Ada/C++ in Deployed System
 - Selection of Java ORB for Target Still In-Process
- CORBA Name Service
 - Used for Client/Server Component Discovery Process
 - Common File Method Used





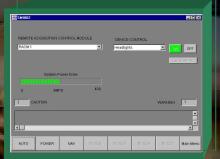
Common Functionality across Land Vehicle Designs

- Soldier Machine Interfaces (SMI)
- Gauges, Indicators, Maps and Situational Awareness



Automotive

- Fuel Levels
- Engine Status
- Compass Rose
- Cautions/Warnings



Power Management

- Power Controls
- Power Draw
- Load Status
- Alerts



Navigation

- Steer-To Indicator
- Digital Maps
- Waypoint Navigation
- GPS











